July 9, 1970

Humboldt Reactor File

PGER HURBOLDT REACTOR - HAND AND FOOT COUNTER ALARM POINT SETTINGS

On July 7, 1970, I received a talephona call from Mr. Ed Meeks at the FGGE Humboldt Reactor. He wanted to discuss their practices regarding the alarm point settings on the hand and foot counter at the reactor. He said the background on the hand and foot counter at the reactor. He said the background on the hand and foot counter at the reactor. He said the background on the hand and foot counter at the reactor. He said the background on the hand and foot counter at the reactor. He said the background on the hand and foot counter at about considerable variation from the effluent pluse, and should considerable variation with slight variations in wind direction. They have been attempting to minimize the alarm point at 50 to 100 cpm over background by changing the alarm point twice per shift in an attempt to "follow" the changing background, which varies between 300 and 500 cpm, according to Meeks. This effort hav resulted in many spurious alarms and has been a burden on the instrument technicians, especially on the night shifts.

Weeks raked if the ACC had any requirements on this matter, and also questioned me concerning the general practices at other installations. We said they were considering setting the alarm point on their mathine at about 560 eps or about 80 eps over normal high background. This would prevent the spurious alarms, but would also reduce remaitivity during periods of low background. Mr. Meeks said they had previously operated in this manner with no problems. We said they had previously operated in this manner with no problems. We said they had and foot counter was a final check when emiting from the contaminated area, and was precorded by two check stations where contamination surveys by pertable instruments were required. He also said that during the period when they operated at the higher alarm setting, no problems of contamination spread to the clean areas had occurred.

I told Mr. Weeks that the AEC had no specific requirements concerning the satisfy of alarm points on hand and foot counters. I want on to say that this was generally left up to the individual licenses, and practices varied from plant to plant. I told him we were more interested in overall control accomplished by the progress that in specific hand and foot counter alarm settings, and if their experience indicated no problem with the proposed setting, I could see no problem with it.

I also montioned that the number of 100 cpm over background was cosmonly used, but in general it was a conservative limit. That number was adopted because it represented the lower detection level of most pertable GM-type instruments. I mentioned that contamination of that

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level is more a nuisence and employee relations problem than a real hexard, and described the AEC unconditional release limits as an illustration of levels which were considered to be of little consequence. I also pointed out that spurious clarms were very undesirable, because they might cause employees to ignore a genuine alarm. In surmary, I told Mr. Weeks that I could see no problem as a result of his proposed settings.

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Cristiant Signed by H. E. Book

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